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PURAFIL ENVIRONMENTAL CORROSIVITY REPORT

17-Nov-2010

Company: 118595

Room/Area ID: Reference #:



 Sales Order #:
 C002726

 CCC Panel #:
 P68816

 Date In:
 19-Oct-2010

 Date Out:
 01-Nov-2010

Days In Service: 13

CCC Panel # P68816

ISA Class G2 Moderate

Copper Corrosion 376 Å/30 Days

Silver Corrosion 267 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P68816

The electrolytic reduction analysis on Corrosion Classification Coupon #P68816 shows the presence of moderate concentrations of contaminants and high/variable humidity in the environment tested. The hydrogen sulfide level is expected to range between 3 and 10 ppb, sulfur dioxide between 10 and 100 ppb, and chlorine between 1 and 2 ppb. The presence of moisture and small amounts of inorganic chlorine compounds greatly accelerates sulfide corrosion. The effects of corrosion are measurable and may be a factor in determining equipment reliability.

Your local representative for additional information and assistance is:

Environmental Health and Eng

117 Fourth Avenue, Needham MA 02494, USA

tminegishi@eheinc.com

Purafil, Inc. / 2654 Weaver Way, Doraville GA 30340 USA / (770) 662-8545 / (770) 263-6922 Email: purafil@purafil.com / Internet: http://www.purafil.com

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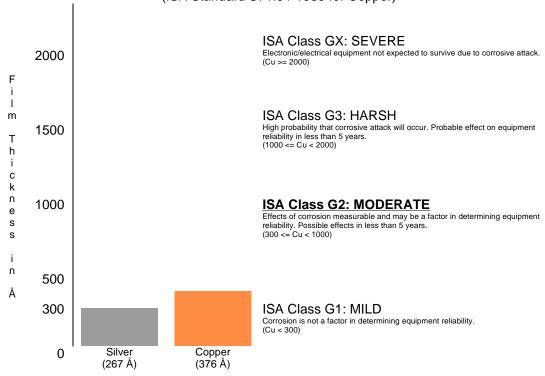
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PURAFIL CCC # P68816 Analysis Results

Corrosion Film Composition Projections				Gold Coupon - Magnified 20x
	<u>30 Days</u>	1 Year	<u>5 Year</u>	magnifica 20x
Copper Films				
Cu ₂ S	281 Å	371 Å	485 Å	
Cu ₂ O	95 Å	125 Å	164 Å	
Unknowns	o Å	0 Å	0 Å	
Totals	376 Å	496 Å	649 Å	
Silver Films				
AgCl	23 Å	285 Å	1427 Å	
Ag ₂ S	244 Å	2970 Å	14848 Å	
Unknowns	o Å	0 Å	0 Å	
Totals	267 Å	3255 Å	16275 Å	
Gold Pore Corrosion: Note: 1000 Å = 0.1 micron				

Equipment Reliability Correlation

(ISA Standard S71.04-1985 for Copper)



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